

# METHOD FOR SCREENING FOR DRUG CANDIDATES FOR MODULATING TRANSCRIPTION FACTOR ACTIVITY

Inventor: Jason Li

5           Method and kits are provided for screening for transcription factor  
modulators, the method comprising: forming a plurality of test samples by  
contacting samples of cells with different agents; and for each test sample,  
identifying which of a plurality of different activated transcription factors are present  
by taking a library of double stranded transcription factor probes, the transcription  
10   factor probes each comprising a recognition sequence capable of binding to an  
activated transcription factor, the recognition sequence varying within the library for  
binding to different activated transcription factors, contacting the different test  
sample with the library of double stranded DNA probes under conditions where  
DNA probe - transcription factor complexes are formed between the DNA probes  
15   and activated transcription factors present in the test samples, isolating the  
transcription factor probes from the transcription factor probe - transcription factor  
complexes formed, and identifying which transcription factor probes in the library  
formed complexes by taking an array of immobilized hybridization probes capable  
of hybridizing to at least one of the strands of the different double stranded  
20   transcription factor probes in the library and contacting the isolated transcription  
factor probes with the array under conditions suitable for hybridization of the strands  
of the different double stranded transcription factor probes to the hybridization  
probes in the array; and comparing the activated transcription factors present in the  
different test samples.